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INDEX TO AMERICAN BOTANICAL LITERATURE

1913-1918

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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Adams, J. F. *Keithia* on *Chamaecyparis thyoides*. *Torreyia* 18: 157-160. f. 1, 2. 7 S 1918.

Keithia Chamaecyparissi sp. nov. is described.

Anderson, P. J. Rose canker and its control. Massachusetts Agr. Exp. Sta. Bull. 183: 11-46. pl. 1-3 + f. 1-11. My 1918.

Andrews, A. L. A collection of mosses from North Carolina. *Bryologist* 21: 61-67. Jl 1918.

Arny, A. C., & Garber, R. J. Variation and correlation in wheat, with special reference to weight of seed planted. *Jour. Agr. Research* 14: 359-392. f. 1-8. 26 Au 1918.

Artschwager, E. F. Anatomy of the potato plant, with special reference to the ontogeny of the vascular system. *Jour. Agr. Research* 14: 221-252. pl. 27-47. 5 Au 1918.

Atkinson, G. F. Preliminary notes on some new species of agarics. *Proc. Am. Philos. Soc.* 52: 354-356. 8 Au 1918.

New species are described in *Amanita* (2), *Hypholoma* (2), *Lactarius* (2), *Lepiota* (1) and *Pholiota* (1).

Bakke, A. L. Determination of wilting. *Bot. Gaz.* 66: 81-116. f. 1-5. 15 Au 1918.

- Bicknell, E. P.** The ferns and flowering plants of Nantucket—XVIII. Bull. Torrey Club **44**: 369-387. 10 Au 1917;—XIX. Bull. Torrey Club **45**: 365-383. 20 S 1918.
Includes *Quercus rufescens* sp. nov.
- Bisby, G. R., & Tolaas, A. G.** Copper sulphate a disinfectant for potatoes. Phytopathology **8**: 240, 241. 11 My 1918.
- Blakeslee, A. F.** Unlike reaction of different individuals to fragrance in *Verbena* flowers. Science II. **48**: 298, 299. 20 S 1918.
- Boas, H. M.** The relationship between the number of sporophylls and the numbers of stamens and pistils—a criticism. Bull. Torrey Club **45**: 343-345. 9 S 1918.
- Boyce, J. S.** Imbedding and staining of diseased wood. Phytopathology **8**: 432-436. Au 1918.
- Brenckle, J. F.** North Dakota fungi—II. Mycologia **8**: 199-221. Jl 1918.
Hendersonia Crataegi sp. nov. is described and 9 new species in various genera are listed.
- Britton, E. G.** *Jagerinopsis squarrosa*, n. sp. Bryologist **21**: 48-50. pl. 24. 30 Jl 1918.
- Britton, N. L.** The botany and plant products of northern South America. Jour. N. Y. Bot. Gard. **19**: 182-185. Au 1918.
Published also in Science II. **48**: 156. 1918.
- Brown, J. G.** Abnormal conjugation in *Spirogyra*. Bot. Gaz. **66**. 269-271. f. 1-3. 16 S 1918.
- Buchanan, R. E.** Studies in the classification and nomenclature of the bacteria—VII. The sub-groups and genera of the Chlamydo-bacteriales. Jour. Bact. **3**: 301-306. My 1918.
- Buchholz, J. T.** Suspensor and early embryo of *Pinus*. Bot. Gaz. **66**: 185-228. pl. 6-10+f. 1-3. 16 S 1918.
- Campbell, D. H.** Studies on some East Indian Hepaticae. Ann. Bot. **32**: 319-338. pl. 8, 9+f. 1-10. Jl 1918.
Dumortiera calcicola sp. nov. is described.
- Clute, W. N.** The barberry and the wheat rust. Am. Bot. **24**: 85-87. Au 1918.
- Clute, W. N.** Flowers of varying colors. Am. Bot. **24**: 103-105. Au 1918.
- [**Clute, W. N.**] Note and comment. Am. Bot. **24**: 106-113. Au 1918.
Includes notes on *Sedum ternatum* in Illinois, Spring flowers in autumn, Wilting of cut flowers, *Kochia alata*, Odor of *Amelanchier*, etc.
- [**Clute, W. N.**] Two forms of leaves on the same plant. Am. Bot. **24**. 101, 102. Au 1918. [Illust.]

- Collins, F. S.** Notes from the Woods Hole Laboratory—1917. *Rhodora* 20: 141-145. *pl.* 124. 1 Au 1918.
Includes *Microchaete naushonensis*, *Bulbochaete Furberae*, and *Erythrotrichia rhoizoidea*, spp. nov.
- Coutant, M. W.** Wound periderm in certain cacti. *Bull. Torrey Club* 45: 353-364. *pl.* 9+*f.* 1-3. 20 S 1918.
- Cunningham, B.** Cross-conjugation in *Spirogyra Weberi*. *Bot. Gaz.* 66: 272, 273. *f.* 1. 16 S 1918.
- Davidson, A.** Additions to the local flora. *Bull. So. Calif. Acad. Sci.* 17: 60, 61. J1 1918.
- Davidson, A.** *Lupinus mollisifolius* spec. nov. *Bull. So. Calif. Acad. Sci.* 17: 57. J1 1918.
- Davidson, A.** *Lupinus Paynei* spec. nov. *Bull. So. Calif. Acad. Sci.* 17: 58, 59. J1 1918. [Illustr.]
- Detwiler, S. B.** Battling the pine blister rust. *Am. Forestry* 24: 451-457. Au 1918. [Illustr.]
- Dodge, B. O.** Studies in the genus *Gymnosporangium*—III. The origin of the teleutospore. *Mycologia* 8: 182-193. *pl.* 9-11. J1 1918.
- Drechsler, C.** The taxonomic position of the genus *Actinomyces*. *Proc. Nat. Acad. Sci.* 4: 221-224. Au 1918.
- East, E. M.** The home of the sovereign weed. *Sci. Mo.* 7: 170-178. Au 1918.
- Emig, W. H.** *Octodicerias Julianum* Brid. var. *ohioense*, new variety. *Bryologist* 21: 60, 61. *pl.* 26. J1 1918.
- Farr, C. H.** Cell division by furrowing in *Magnolia*. *Am. Jour. Bot.* 5: 379-395. *pl.* 30-32. 3 Au 1918.
- Felt, E. P.** Gall insects and their relations to plants. *Sci. Mo.* 6: 509-525. Je 1918. [Illustr.]
- Foxworthy, F. W.** Philippine Dipterocarpaceae, II. *Philip. Jour. Sci.* 13: (Bot.) 163-199. *pl.* 1, 2. My 1918.
Seventeen new species are described.
- Fred, E. B., & Davenport, A.** Influence of reaction on nitrogen-assimilating bacteria. *Jour. Agr. Research* 14: 317-336. 19 Au 1918.
- Frye, T. C.** The age of *Pterygophora californica*. *Publ. Puget Sound Biol. Sta.* 2: 65-71. *pl.* 17. 1 J1 1918.
- Frye, T. C.** Illustrated key to the western Sphagnaceae. *Bryologist* 21: 37-48. *pl.* 17-23. 30 J1 1918.

- Goodspeed, T. H.** Modified safety-razor blade holder for temperature control. *Bot. Gaz.* **66**: 176, 177. *f. 1.* 15 Au 1918.
- Graham, M.** Centrosomes in fertilization stages of *Preissia quadrata* (Scop.) Nees. *Ann. Bot.* **32**: 415-420. *pl. 10.* Jl 1918.
- Harper, R. M.** A new seasonal precipitation factor of interest to geographers and agriculturists. *Science II.* **48**: 208-211. 30 Au 1918.
- Harris, J. A.** Secondary parasitism in *Phoradendron*. *Bot. Gaz.* **66**: 275, 276. 16 S 1918.
- Harshberger, J. W.** Ecological society of America. The preservation of our native plants. *Torreyia* **18**: 162-165. 7 S 1918.
- Hasselbring, H.** Effect of different oxygen pressures on the carbohydrate metabolism of the sweet potato. *Jour. Agr. Research* **14**: 273-284. 12 Au 1918.
- Henderson, M. P.** The black-leg disease of cabbage caused by *Phoma lingam* (Tode) Desmaz. *Phytopathology* **8**: 379-431. *f. 1-10.* Au 1918.
- Hibbard, R. P.** Physiological balance in the soil solution. *Michigan Agr. Exp. Sta. Tech. Bull.* **40**: 1-44. *f. 1-8.* S 1917.
- Holm, T.** Joan Baptista Porta. *Am. Nat.* **52**: 455-461. S 1918.
- Hotson, J. W.** *Sphagnum* as a surgical dressing. *Science II.* **48**: 203-208. 30 Au 1918.
- Johnston, I. M.** A few notes on the botany of southern California. *Bull. So. Calif. Acad. Sci.* **17**: 64-66. Jl 1918.
- Johnston, I. M.** Some undescribed plants from southern California. *Bull. So. Calif. Acad. Sci.* **17**: 63, 64. Jl 1918.
Lupinus elatus sp. nov. is described.
- Jones, D. F.** The effect of inbreeding and crossbreeding upon development. *Proc. Nat. Acad. Sci.* **4**: 246-250. *f. 1, 2.* Au 1918.
- Keeler, H. L.** The wayside flowers of summer. i-xiii+1-288. New York. 1917. [Illust.]
- Koessler, J. H.** Studies on pollen and pollen disease.—I. The chemical composition of ragweed pollen. *Jour. Biol. Chem.* **35**: 415-424. S 1918.
- Lipman, C. B., & Waynick, D. D.** A bacteriological survey of the soil of Loggerhead Key, Tortugas, Florida. *Proc. Nat. Acad. Sci.* **4**: 232-234. Au 1918.
- Livingston, B. E., & Tottingham, W. E.** A new three-salt nutrient solution for plant cultures. *Am. Jour. Bot.* **5**: 337-346. 3 Au 1918.

- Lorenz, A.** Notes on *Radula obconica* Sull. Bryologist **21**: 56-59. *pl.* 25. Jl 1918.
- Love, H. H., & Craig, W. T.** The relation between color and other characters in certain *Avena* crosses. Am. Nat. **52**: 369-383. S 1918.
- MacCaughey, V.** An endemic *Begonia* of Hawaii. Bot. Gaz. **66**: 273-275. 16 S 1918.
- MacCaughey, V.** The olona, Hawaii's unexcelled fibre plant. Science II. **48**: 236-238. 6 S 1918.
- MacCaughey, V.** A survey of the Hawaiian coral reefs. Am. Nat. **52**: 409-438. *f.* 1-9. S 1918.
- MacDaniels, L. H.** The histology of the phloem in certain woody angiosperms. Am. Jour. Bot. **5**: 347-378. *pl.* 24-29. 3 Au 1918.
- Matz, J.** Some diseases of the fig. Florida Agr. Exp. Sta. Bull. **149**: 1-10. *f.* 1-5. Au 1918.
- McCubbin, W. A.** Peach canker. Canada Dept. Agr. Dom. Exp. Farms Bull. **37**: 1-20. *pl.* 1-6 + *f.* 1, 2. 1918.
- McCulloch, L.** A morphological and cultural note on the organism causing Stewart's disease of sweet corn. Phytopathology **8**: 440, 441. *pl.* 1. Au 1918.
- Merrill, E. D.** Notes on the flora of Loh Fau Mountain, Kwangtung Province, China. Philip. Jour. Sci. **13**: (Bot.) 123-161. My 1918. Twenty-three new species are described.
- Moxley, G. L.** Additions to the lichen flora of southern California. Bull. So. Calif. Acad. Sci. **17**: 61, 62. Jl 1918.
- Murrill, W. A.** Illustrations of fungi—XXIX. Mycologia **10**: 177-181. *pl.* 8. Jl 1918.
Prunulus viscidipes sp. nov., *Laccaria amethystea*, *L. striatula*, *Leptoniella conica* sp. nov., *Prunulus galericulatus*, *Omphalopsis fibula*, *Clitocybe farinacea*, *Marasmius dichrons* and *M. instilius* are illustrated in color.
- Nash, G. V.** Hardy woody plants in the New York Botanical Garden. Jour. N. Y. Bot. Gard. **19**: 58-62. Mr 1918; 86-91. Ap 1918; 108-112. My 1918; 139-142. Je 1918; 167-171. Jl 1918; 192-196. Au 1918.
- Nelson, J. C.** An addition to our food plants. Am. Bot. **24**: 97-99. Au 1918.
Crambe maritima.
- Nelson, J. C.** A new form of *Prunella vulgaris*. Am. Bot. **24**: 82-85. Au 1918. [Illust.]

- Nichols, G. E.** War work for bryologists. *Bryologist* **21**: 53-56. J1 1918.
- Nothnagel, M.** Fecundation and formation of the primary endosperm nucleus in certain Liliaceae. *Bot. Gaz.* **66**: 143-161. *pl.* 3-5. 15 Au 1918.
- O'Gara, P. J.** The white-spot disease of alfalfa. *Science* **48**: 299-301. 20 S 1918.
- Paulsen, O.** A new *Cereus* from the West Indies. *Jour. Bot.* **56**: 235. Au 1918.
Cereus venditus.
- Peltier, G. L.** Susceptibility and resistance to citrus-canker of the wild relatives, citrus fruits, and hybrids of the genus *Citrus*. *Jour. Agr. Research* **14**: 337-358. *pl.* 50-53. 26 Au 1918.
- Peltier, G. L., & Neal, D. C.** A convenient heating and sterilizing outfit for a field laboratory. *Phytopathology* **8**: 436-438. *f.* 1, 2. Au 1918.
- Pennell, F. W.** A plea for *Aureolaria*. *Rhodora* **20**: 133-137. 1 Au 1918.
- Potter, R. S., & Snyder, R. S.** The production of carbon dioxide by molds inoculated into sterile soil. *Soil Sci.* **5**: 359-375. *pl.* 1 + *f.* 1-4. My 1918.
- Reichert, E. T.** The differentiation and specificity of starches in relation to genera, species, etc. Part I. i-xvii + 1-342 + [1-21]. *pl.* 1-102. Washington. 1913; Part II. i-xvii + 343-900 + [1-18]. Washington. 1913.
Carnegie Publ. No. 173.
- Riddle, L. W.** Some extensions of ranges. *Bryologist* **21**: 50. 30 J1 1918.
- Roberts, J. W.** The source of apple bitter-rot infections. U. S. Dept. Agr. Bull. 684: 1-25. *pl.* 1-5. 19 Au 1918.
- Robertson, C.** Pollination of *Asclepias cryptoceras*. *Bot. Gaz.* **66**: 177. 15 Au 1918.
- Sargent, C. S.** Notes on North American trees.—II. *Carya*. *Bot. Gaz.* **66**: 229-258. 16 S 1918.
Includes *Carya leioderms* sp. nov. and many new varieties and combinations.
- Schneider, C.** Notes on American willows—I. The species related to *Salix arctica* Pall. *Bot. Gaz.* **66**: 117-142. 15 Au 1918.
- Schwarze, C. A.** The parasitic fungi of New Jersey. New Jersey Agr. Exp. Sta. Bull. 313: 1-226. *f.* 1-1056. S 1917.

- Shear, C. L., & Stevens, N. E.** Plant pathology today. *Sci. Mo.* **7**: 235-243. S 1918.
- Shear, C. L., Stevens, N. E., Wilcox, R. B., & Rudolph, B. A.** Spoilage of cranberries after harvest. *U. S. Dept. Agr. Bull.* **714**: 1-20. 9 Au 1918.
- Shufeldt, R. W.** Midsummer flower-hunts. *Am. Forestry* **24**: 489-496. *f.* 1-10. Au 1918.
- Sinnott, E. W.** Factors determining character and distribution of food reserve in woody plants. *Bot. Gaz.* **66**: 162-175. *f.* 1, 2. 15 Au 1918.
- Skottsberg, C.** The islands of Juan Fernandez. *Geog. Rev.* **5**: 362-383. *f.* 1-20. My 1918.
- Soth, B. H.** Blossoms by the wayside in the Rockies. *Am. Bot.* **24**: 88-91. Au 1918. [Illust.]
- Spegazzini, A.** Observaciones microbiológicas. *An. Soc. Cien. Argentina* **85**: 311-323. Je 1918.
Includes the new genera *Amphoropsis*, *Myriapodophila*, *Thaxteriella*, *Entomocosma*, and several new species in the Laboulbiniales, and two new species in *Chansiosopsis*.
- Stevens, N. E.** American botany and the great war. *Science* **48**: 177-179. 23 Au 1918.
- Stevenson, J. A.** Citrus diseases of Porto Rico. *Jour. Dept. Agr. Porto Rico* **2**: 43-123. Ap 1918.
- Stone, R. E.** Incubation period of *Cronartium ribicola* on the white pine. *Phytopathology* **8**: 438-440. Au 1918.
- Sudworth, G. B.** Miscellaneous conifers of the Rocky Mountain region. *U. S. Dept. Agr. Bull.* **680**: 1-45. *pl.* 1-13 + *maps* 1-9. 14 Au 1918.
- Thériot, I.** Note sur une mousse du Chili, *Barbula flagellaris* Schp. *Rec. Publ. Soc. Havraise d'Études Div.* (1er Trimestre 1917), pp. 1-7. 1917.
- Turner, C. E.** Plant and animal life in the purification of a polluted stream. *Sci. Mo.* **7**: 34-45. Jl 1918. [Illust.]
- Veitch, F. P., & Rogers, J. S.** American sumac: a valuable tanning material and dyestuff. *U. S. Dept. Agr. Bull.* **706**: 1-12. *pl.* 1-5. 26 Jl 1918.
- Weatherwax, P.** The evolution of maize. *Bull. Torrey Club* **45**: 309-342. *f.* 1-36. 9 S 1918.
- Weir, J. R., & Hubert, E. E.** Cultures with *Melampsorae* on *Populus*. *Mycologia* **8**: 194-198. Jl 1918.

- Weniger, W.** Fertilization in *Lilium*. Bot. Gaz. **66**: 259-268. *pl.* 11-13. 16 S 1918.
- Wieland, G. R.** The origin of dicotyls. Science II. **48**: 18-21. 5 J. 1918.
- Williamson, E. B.** A collecting trip to Colombia, South America. Univ. Michigan Mus. Zoo. Misc. Publ. 3: 1-24. 22 F 1918.
- Wodehouse, R. P.** Direct determination of permeability. Jour. Biol. Chem. **29**: 435-458. 1917.
- Wolf, W.** *Quercus bernardiensis* sp. nov. Torreya **18**: 161, 162. 7 S 1918.
- Woodward, R. W.** Some Connecticut plants. Rhodora **20**: 97, 98. 1 My 1918.
- Woodward, R. W.** Some Rhode Island grasses. Rhodora **20**: 116. 11 Je 1918.
- Woodward, R. W.** A *Salix rostrata* hybrid? Rhodora **20**: 132. 22 Jl 1918.
- Young, H. C., & Cooper, E. H.** A method for determining the fungicidal coefficient of lime sulphur and other common fungicides. Ann. Rep. Michigan Acad. Sci. **19**: 221-236. 1917.
- Young, V. H.** Some factors affecting inulase formation in *Aspergillus niger*. Plant World **21**: 75-87. Ap 1918.
- Zeller, S. M.** An interesting fungus from Friday Harbor, Washington. Publ. Puget Sound Biol. Sta. **2**: 95, 96. 1 Jl 1918.
Rhizopogon diplophloeus.
- Zimmerman, H. E.** A tree that owns itself. Am. Bot. **24**: 81, 82. Au 1918. [Illust.]